WolframAlpha

(21π^e(5+ln(294+π))^π)/(3 ln(2)-√(e*56π-17.2))

Input

$$\frac{21\,\pi^e\,(5+\log(294+\pi))^\pi}{3\log(2)-\sqrt{e\times 56\,\pi-17.2}}$$

Result

−41605.88970543902810549491890347763734291838508409457812688316
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455361902199601316600068406...

Fewer digits

Number line

−70 000 −60 000 −50 000 −40 000 −30 000 −20 000 −10 000

Number name

negative forty−one thousand six hundred five point eight eight nine seven zero five four three nine zero two five

Alternative representations

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+\log_e(294+\pi)\right)^\pi}{3\log_e(2)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+\log(a)\log_a(294+\pi)\right)^\pi}{3\log(a)\log_a(2)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5-\mathrm{Li}_1(-293-\pi)\right)^\pi}{-3\,\mathrm{Li}_1(-1)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+2\coth^{-1}\left(\frac{295+\pi}{293+\pi}\right)\right)^\pi}{6\coth^{-1}(3)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5-S_{0,1}(-293-\pi)\right)^\pi}{-3\,S_{0,1}(-1)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+2\tanh^{-1}\left(\frac{293+\pi}{295+\pi}\right)\right)^\pi}{6\tanh^{-1}\left(\frac{1}{3}\right)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+2\,i\cot^{-1}\left(\frac{i(295+\pi)}{293+\pi}\right)\right)^\pi}{6\,i\cot^{-1}(3\,i)-\sqrt{-17.2+56\,e\,\pi}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\left(5+2\,i\tan^{-1}\left(\frac{i(-293-\pi)}{295+\pi}\right)\right)^\pi}{6\,i\tan^{-1}\left(-\frac{i}{3}\right)-\sqrt{-17.2+56\,e\,\pi}}$$

Less

Series representations

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\,(5+\log(294+\pi))^\pi}{3\log(2)-\sqrt{-18.2+56\,e\,\pi}\,\sum_{k=0}^{\infty}(-18.2+56\,e\,\pi)^{-k}\binom{\frac{1}{2}}{k}}$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\frac{21\,\pi^e\,(5+\log(294+\pi))^\pi}{3\log(2)-\exp\left(i\,\pi\left\lfloor\frac{\arg(-17.2+56\,e\,\pi-x)}{2\,\pi}\right\rfloor\right)\sqrt{x}\,\sum_{k=0}^{\infty}\frac{(-1)^k(-17.2+56\,e\,\pi-x)^k\,x^{-k}\left(-\frac{1}{2}\right)_k}{k!}}\quad\text{for } (x\in\mathbb{R}\text{ and }x<0)$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\,(5+\log(294+\pi))^\pi\right)\Big/\left(3\log(2)-\left(\frac{1}{z_0}\right)^{1/2\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor}z_0^{1/2(1+\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor)}\sum_{k=0}^{\infty}\frac{(-1)^k\left(-\frac{1}{2}\right)_k(-17.2+56\,e\,\pi-z_0)^k\,z_0^{-k}}{k!}\right)$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\left(5+2\,i\,\pi\left\lfloor\frac{\arg(294+\pi-x)}{2\,\pi}\right\rfloor+\log(x)-\sum_{k=1}^{\infty}\frac{(-1)^k(294+\pi-x)^k\,x^{-k}}{k}\right)^\pi\right)\Big/\left(6\,i\,\pi\left\lfloor\frac{\arg(2-x)}{2\,\pi}\right\rfloor+3\log(x)-3\sum_{k=1}^{\infty}\frac{(-1)^k(2-x)^k\,x^{-k}}{k}-\exp\left(i\,\pi\left\lfloor\frac{\arg(-17.2+56\,e\,\pi-x)}{2\,\pi}\right\rfloor\right)\sqrt{x}\sum_{k=0}^{\infty}\frac{(-1)^k(-17.2+56\,e\,\pi-x)^k\,x^{-k}\left(-\frac{1}{2}\right)_k}{k!}\right)\quad\text{for } (x\in\mathbb{R}\text{ and }x<0)$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\left(5+\log(z_0)+\left\lfloor\frac{\arg(294+\pi-z_0)}{2\,\pi}\right\rfloor\left(\log\left(\frac{1}{z_0}\right)+\log(z_0)\right)-\sum_{k=1}^{\infty}\frac{(-1)^k(294+\pi-z_0)^k\,z_0^{-k}}{k}\right)^\pi\right)\Big/\left(3\left\lfloor\frac{\arg(2-z_0)}{2\,\pi}\right\rfloor\log\left(\frac{1}{z_0}\right)+3\log(z_0)+3\left\lfloor\frac{\arg(2-z_0)}{2\,\pi}\right\rfloor\log(z_0)-\exp\left(i\,\pi\left\lfloor\frac{\arg(-17.2+56\,e\,\pi-x)}{2\,\pi}\right\rfloor\right)\sqrt{x}\sum_{k=0}^{\infty}\frac{(-1)^k(-17.2+56\,e\,\pi-x)^k\,x^{-k}\left(-\frac{1}{2}\right)_k}{k!}-3\sum_{k=1}^{\infty}\frac{(-1)^k(2-z_0)^k\,z_0^{-k}}{k}\right)\quad\text{for } (x\in\mathbb{R}\text{ and }x<0)$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\left(5+2\,i\,\pi\left\lfloor-\frac{-\pi+\arg\left(\frac{294+\pi}{z_0}\right)+\arg(z_0)}{2\,\pi}\right\rfloor+\log(z_0)-\sum_{k=1}^{\infty}\frac{(-1)^k(294+\pi-z_0)^k\,z_0^{-k}}{k}\right)^\pi\right)\Big/\left(6\,i\,\pi\left\lfloor-\frac{-\pi+\arg\left(\frac{2}{z_0}\right)+\arg(z_0)}{2\,\pi}\right\rfloor+3\log(z_0)-\exp\left(i\,\pi\left\lfloor\frac{\arg(-17.2+56\,e\,\pi-x)}{2\,\pi}\right\rfloor\right)\sqrt{x}\sum_{k=0}^{\infty}\frac{(-1)^k(-17.2+56\,e\,\pi-x)^k\,x^{-k}\left(-\frac{1}{2}\right)_k}{k!}-3\sum_{k=1}^{\infty}\frac{(-1)^k(2-z_0)^k\,z_0^{-k}}{k}\right)\quad\text{for } (x\in\mathbb{R}\text{ and }x<0)$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\left(5+2\,i\,\pi\left\lfloor\frac{\arg(294+\pi-x)}{2\,\pi}\right\rfloor+\log(x)-\sum_{k=1}^{\infty}\frac{(-1)^k(294+\pi-x)^k\,x^{-k}}{k}\right)^\pi\right)\Big/\left(6\,i\,\pi\left\lfloor\frac{\arg(2-x)}{2\,\pi}\right\rfloor+3\log(x)-3\sum_{k=1}^{\infty}\frac{(-1)^k(2-x)^k\,x^{-k}}{k}-\left(\frac{1}{z_0}\right)^{1/2\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor}z_0^{1/2+1/2\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor}\sum_{k=0}^{\infty}\frac{(-1)^k\left(-\frac{1}{2}\right)_k(-17.2+56\,e\,\pi-z_0)^k\,z_0^{-k}}{k!}\right)\quad\text{for } x<0$$

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=\left(21\,\pi^e\left(5+\log(z_0)+\left\lfloor\frac{\arg(294+\pi-z_0)}{2\,\pi}\right\rfloor\left(\log\left(\frac{1}{z_0}\right)+\log(z_0)\right)-\sum_{k=1}^{\infty}\frac{(-1)^k(294+\pi-z_0)^k\,z_0^{-k}}{k}\right)^\pi\right)\Big/\left(3\left\lfloor\frac{\arg(2-z_0)}{2\,\pi}\right\rfloor\log\left(\frac{1}{z_0}\right)+3\log(z_0)+3\left\lfloor\frac{\arg(2-z_0)}{2\,\pi}\right\rfloor\log(z_0)-3\sum_{k=1}^{\infty}\frac{(-1)^k(2-z_0)^k\,z_0^{-k}}{k}-\left(\frac{1}{z_0}\right)^{1/2\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor}z_0^{1/2+1/2\lfloor\arg(-17.2+56\,e\,\pi-z_0)/(2\,\pi)\rfloor}\sum_{k=0}^{\infty}\frac{(-1)^k\left(-\frac{1}{2}\right)_k(-17.2+56\,e\,\pi-z_0)^k\,z_0^{-k}}{k!}\right)$$

Less

Integral representation

$$\frac{21\left(\pi^e(5+\log(294+\pi))^\pi\right)}{3\log(2)-\sqrt{e\,56\,\pi-17.2}}=-\frac{42\,i\,\pi^{1+e}\left(5+\frac{1}{2\,i\,\pi}\int_{-i\,\infty+\gamma}^{i\,\infty+\gamma}\frac{(293+\pi)^{-s}\,\Gamma(-s)^2\,\Gamma(1+s)}{\Gamma(1-s)}\,ds\right)^\pi}{-3\int_{-i\,\infty+\gamma}^{i\,\infty+\gamma}\frac{\Gamma(-s)^2\,\Gamma(1+s)}{\Gamma(1-s)}\,ds+2\,i\,\pi\sqrt{-17.2+56\,e\,\pi}}\quad\text{for } -1<\gamma<0$$

Related Queries:

- handwritten style continued fraction theorems that hold for almost all real numbers
- .0123456789...
- Apple iPods
- handwritten Lochs constant-related continued fraction theorems
- {21 pi^e (5 + log(294 + pi))^pi, 1/(3 log(2) - sqrt(e 56 pi - 17.2))} on the number line